

Fast Track WSA-ENLIL + Cone model runs

2015-06-08







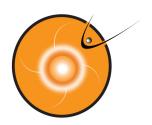












Outline

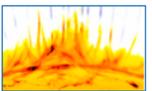
- CCMC Runs on Request System
- Submitting your FastTrack ENLIL+Cone model run
- Analysing your simulation results
- FastTrack DEMO and hands-on practice

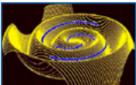


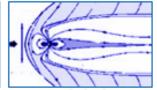
CCMC Runs on Request system

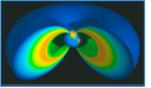
CCMC Runs on Request systems allows anyone to run space weather models hosted at the CCMC. There are over 30 models available for Runs on Request at:

http://ccmc.gsfc.nasa.gov

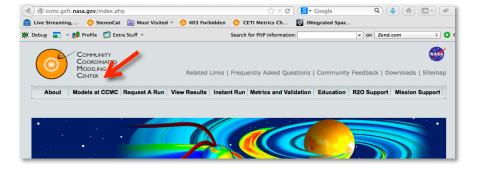








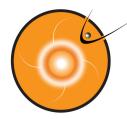




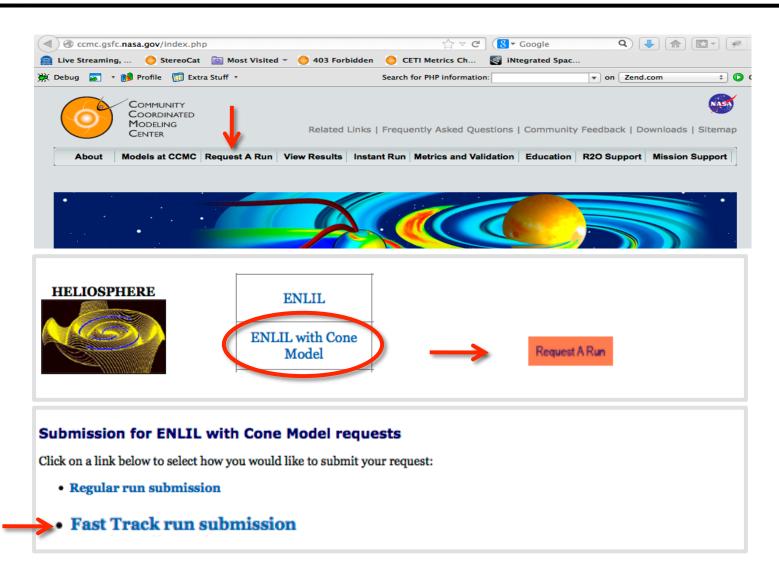


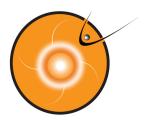


CORHEL/MAS /WSA/ENLIL/	J. Linker, Z. Mikic, R. Lionello, P. Riley, N. Arge, D. Odstrcil	PSI, AFRL, U.Colorado	
SWMF/SC/IH	Bart van der Holst, Igor Sokolov, Ward Manchester, Gabor Toth, Darren DeZeeuw and Tamas Gombosi	CSEM	
ENLIL	D. Odstrcil	Univ. of Colorado at Boulder	
ENLIL with Cone Model	D. Odstrcil	Univ. of Colorado at Boulder	
Heliospheric Tomography with SMEI data	B. Jackson, P. Hick	CASS/UCSD (SMEI)	
Heliospheric Tomography with IPS data	B. Jackson, P. Hick	CASS/UCSD (SMEI or IPS)	
Exospheric Solar Wind	H.Lamy, V.Pierrard	IASB-BIRA	



Submitting FastTrack ENLIL request

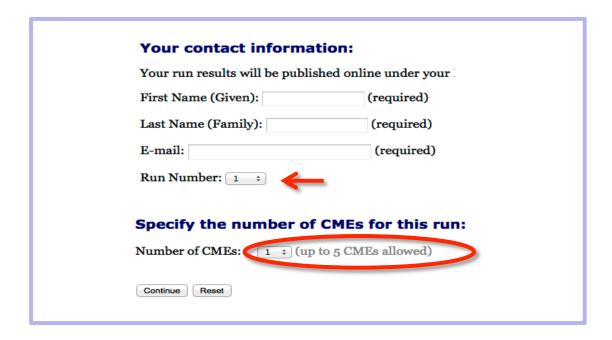


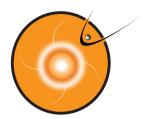


FastTrack run submission (cont.)

Provide:

- your contact information,
- Run Number (you can submit a limited number of runs per day and they will be distinguished by this number)
- the number of CMEs in your simulation (limit 5)

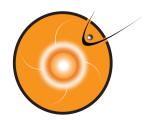




FastTrack run submission (cont.)

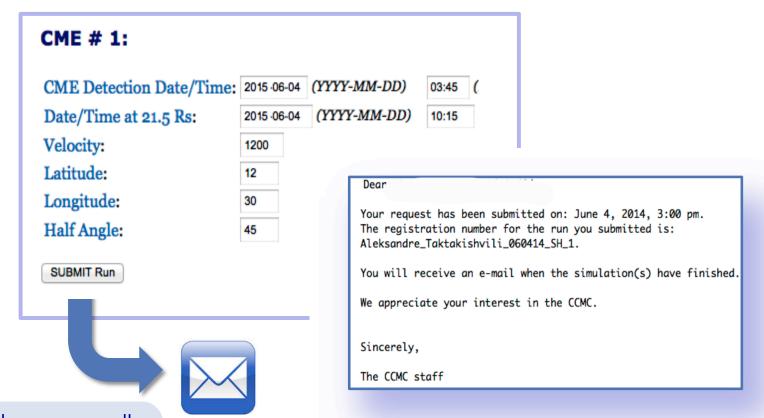
Enter CME parameters (e.g., parameters derived in a StereoCAT session):

CME # 1:	-		
CME Detection Date/Time:	2015 -06-04	(YYYY-MM-DD)	03:45 (
Date/Time at 21.5 Rs:	2015 -06-04	(YYYY-MM-DD)	10:15
Velocity:	1200		
Latitude:	12		
Longitude:	30		
Half Angle:	45		
SUBMIT Run			

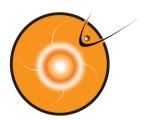


FastTrack run submission (cont.)

Enter CME parameters (e.g., parameters derived in a StereoCAT session):



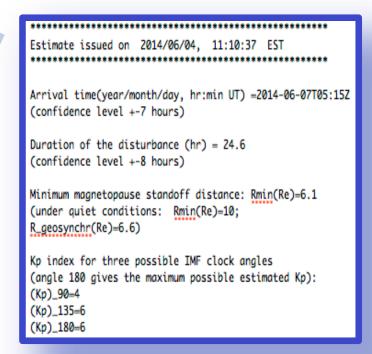
Run results are usually ready in 40 mins (for events within the last 3 months)



Run completion notification

Run completion notification emails contain:

- Estimate of the CME arrival at Earth
- Estimate of the CME arrival at planets (and satellites)
- Link to the run results available on the CCMC website





Inner planets:

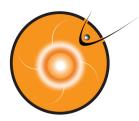
Experimental ICME estimate

Stereo A

Arrival time(year/month/day,
hr:min UT) =2010-04-22T15:03Z

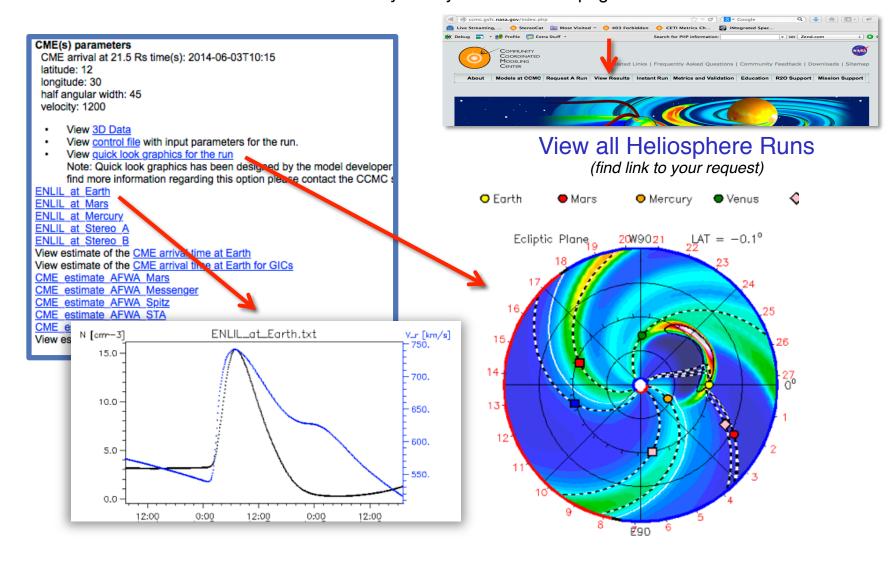
Stereo B

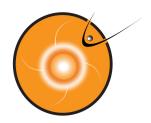
CME did not hit the StereoB.
or
CME impact is very weak.



Run results on the CCMC website

The link in the run notification email will take you to your run results page on the CCMC website.





FastTrack DEMO and practice

iSWA layout for 2015-04-04 DEMO CME

http://1.usa.gov/1BTlgbz

Sample saved StereoCAT session for this event:

http://1.usa.gov/1GjMz48

iSWA layout for CME arrival:

http://1.usa.gov/1KVH8LG

DEMO

In-class assignment: submitting a FastTrack ENLIL+Cone model run:

http://bit.ly/1AGh5VB

To submit a FastTrack run go to the CCMC website:

http://ccmc.gsfc.nasa.gov

click on Request A Run tab; find ENLIL with Cone model and click Request A Run button; then select FastTrack submission **PRACTICE**